

Chelsea® 892 Series

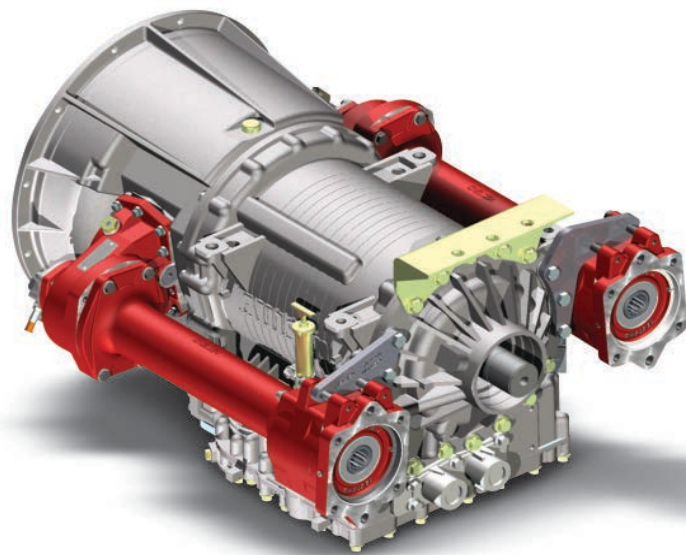
New PowerShift PTO for Allison
4700 Transmissions



Overview:

The 892 Series Power Take-Off (PTO) is mounted between the transmission and the frame rail of the truck. It mounts like a standard side mounted PTO with an additional bracket at the rear of the transmission. It places the output of the PTO beyond the rear of the transmission where there is extra space. The 892 Series is a single unit, not a PTO with an extension, the main shaft is one piece eliminating the input splines between the PTO and the shaft extension. The clutch has been moved to the rear of the unit to allow the housing and gear section to tuck in tightly to the transmission. The output utilizes a wet spline which eliminates fretting problems.

- Refuse
- Fire & Rescue
- Sewer Sanitation
- Aerial
- Oil & Mining



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Product Features and Benefits:

- **Pump Clearance** – Moves the PTO output flange to the rear of the transmission.
- **Compact** – Requires less space than current PTOs.
- **Power** – Torque ratings up to 670 lbs-ft.
- **Ratio Choices** – Multiple output ratios available.
- **Ease of Installation** – Installed in two pieces.
- **Single piece shaft** – Solid steel shaft.
- **Wet Spline outputs** – Extends shaft life for Pump & PTO.
- **Patent Pending**



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892 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

8 9 2 H A F J W - B 5 X S

Basic Model
892

Mounting Option

X = Less Bracket & Hose Kit (5 Arr.)

4700/4800 Family

C = HD Left Side w/Cooler (3 Arr.)

J = HD Left Side w/Retarder (3 Arr.)

H = HD Left Side (5 Arr.)

K = HD Top Side w/Retarder (5 Arr.)

P = HD Left Side w/Retarder (5 Arr.)

U = HD Top Side (5 Arr.)

Gear Ratio

A = 24/40

B = 25/39

C = 26/38

D = 27/37

E = 29/35

F = 31/33

Input Option

FJ

NOTE: For more details, see Application Catalog
(Transmission Model Number required)

Lube Option

Wet Spline

³⁷ **W** = Wet Spline

Output Option

3 Assembly Arrangement

AC = DIN 100 Flange

AB = DIN 120 Flange

³⁶ **CS** = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

ZS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

³⁶ **CF** = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)

³⁶ **CK** = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)

³⁶ **CZ** = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

XY = ISO 7653 Pump Mount DIN 5462 Shaft

XV = 1410 Series Companion Flange

5 Assembly Arrangement

AC = DIN 100 Flange

AB = DIN 120 Flange

ZS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

³⁴ **DA** = SAE D 4-Bolt Flange, SAE D Shaft (1-3/4" - 13T)

³⁵ **AF** = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)

³⁵ **AZ** = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

³⁵ **XK** = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)

³⁵ **XS** = SAE C 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

XY = ISO 7653 Pump Mount DIN 5462 Shaft

XV = 1410 Series Companion Flange

Assembly Arrangement

³⁶ **3** = Right side - bulge down

Left side - bulge up

³⁵ **5** = Left side - bulge down

Right side - bulge up

Shift Option

B = 12V Elec/Hyd

D = 24V Elec/Hyd

K = 12V Elec/Hyd Valve w/ EOC

L = 24V Elec/Hyd Valve w/ EOC

G = 12V Elec/Hyd Remote Valve

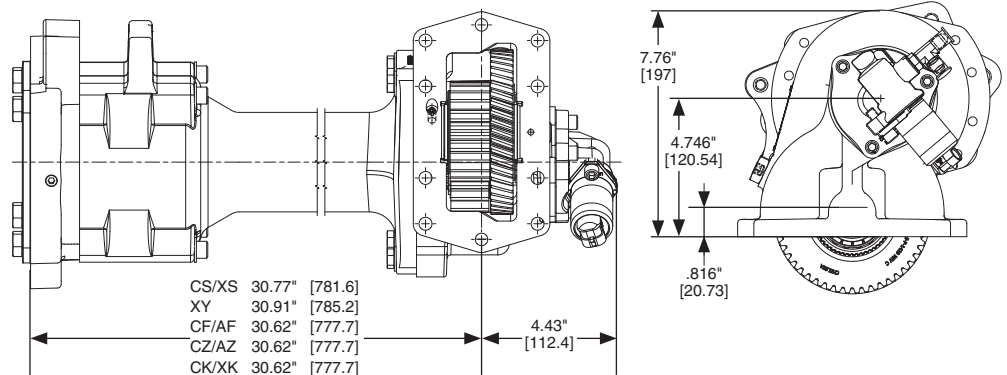
H = 24V Elec/Hyd Remote Valve

³⁴ DA output is not available for transmission with a retarder or cooler

³⁵ XS, XK, AF, AZ outputs only available with 5 ass'y arrangement

³⁶ CS, CK, CF, CZ outputs only available with 3 ass'y arrangement

³⁷ Automatically pressure lubed with Wet Spline



Specifications Chart

Approximate Weight: 86 lbs. [39 kg]

	892*A	892*B	892*C	892*D	892*E	892*F
Intermittent & Continuous Torque Rating (lbs-ft) [Nm]	670 [908]	630 [854]	590 [800]	550 [746]	485 [658]	430 [583]
HP Rating for Intermittent & Continuous Duty						
At 500 RPM of Output Shaft (HP) [Kw]	64 [48]	60 [45]	56 [42]	52 [39]	46 [35]	41 [31]
At 1000 RPM of Output Shaft (HP) [Kw]	128 [95]	120 [90]	112 [84]	105 [78]	92 [69]	82 [61]

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